

SEQUENCE LISTING

<110> BASF Plant Science GmbH

<120> Use of AHAS mutant genes as selection marker in potato transformation

<130> NAE387-02

<140> 0093-53700

<141> 2002-07-08

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<170> PatentIn Ver. 2.1

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<212> DNA

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| Ser | Arg | Arg | Arg | Gly | Ile | Lys | Ser | Ser | Ser | Pro | Ser | Ser | Ile | Ser | Ala |
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 Ser Tyr Pro Cys Asp Asp Glu Leu Ser Leu His Met Leu Gly Met His
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 Gly Thr Val Tyr Ala Asn Tyr Ala Val Glu His Ser Asp Leu Leu Leu
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 370 375 380

| | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
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| Ile | Gly | Lys | Asn | Lys | Thr | Pro | His | Val | Ser | Val | Cys | Gly | Asp | Val | Lys | 405 | 410 | 415 | |
| Leu | Ala | Leu | Gln | Gly | Met | Asn | Lys | Val | Leu | Glu | Asn | Arg | Ala | Glu | Glu | 420 | 425 | 430 | |
| Leu | Lys | Leu | Asp | Phe | Gly | Val | Trp | Arg | Asn | Glu | Leu | Asn | Val | Gln | Lys | 435 | 440 | 445 | |
| Gln | Lys | Phe | Pro | Leu | Ser | Phe | Lys | Thr | Phe | Gly | Glu | Ala | Ile | Pro | Pro | 450 | 455 | 460 | |
| Gln | Tyr | Ala | Ile | Lys | Val | Leu | Asp | Glu | Leu | Thr | Asp | Gly | Lys | Ala | Ile | 465 | 470 | 475 | 480 |
| Ile | Ser | Thr | Gly | Val | Gly | Gln | His | Gln | Met | Trp | Ala | Ala | Gln | Phe | Tyr | 485 | 490 | 495 | |
| Asn | Tyr | Lys | Lys | Pro | Arg | Gln | Trp | Leu | Ser | Ser | Gly | Gly | Leu | Gly | Ala | 500 | 505 | 510 | |
| Met | Gly | Phe | Gly | Leu | Pro | Ala | Ala | Ile | Gly | Ala | Ser | Val | Ala | Asn | Pro | 515 | 520 | 525 | |
| Asp | Ala | Ile | Val | Val | Asp | Ile | Asp | Gly | Asp | Gly | Ser | Phe | Ile | Met | Asn | 530 | 535 | 540 | |
| Val | Gln | Glu | Leu | Ala | Thr | Ile | Arg | Val | Glu | Asn | Leu | Pro | Val | Lys | Val | 545 | 550 | 555 | 560 |
| Leu | Leu | Leu | Asn | Asn | Gln | His | Leu | Gly | Met | Val | Met | Gln | Trp | Glu | Asp | 565 | 570 | 575 | |
| Arg | Phe | Tyr | Lys | Ala | Asn | Arg | Ala | His | Thr | Phe | Leu | Gly | Asp | Pro | Ala | 580 | 585 | 590 | |
| Gln | Glu | Asp | Glu | Ile | Phe | Pro | Asn | Met | Leu | Leu | Phe | Ala | Ala | Ala | Cys | 595 | 600 | 605 | |
| Gly | Ile | Pro | Ala | Ala | Arg | Val | Thr | Lys | Lys | Ala | Asp | Leu | Arg | Glu | Ala | 610 | 615 | 620 | |
| Ile | Gln | Thr | Met | Leu | Asp | Thr | Pro | Gly | Pro | Tyr | Leu | Leu | Asp | Val | Ile | 625 | 630 | 635 | 640 |
| Cys | Pro | His | Gln | Glu | His | Val | Leu | Pro | Met | Ile | Pro | Asn | Gly | Gly | Thr | 645 | 650 | 655 | |
| Phe | Asn | Asp | Val | Ile | Thr | Glu | Gly | Asp | Gly | Arg | Ile | Lys | Tyr | | | 660 | 665 | 670 | |